

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



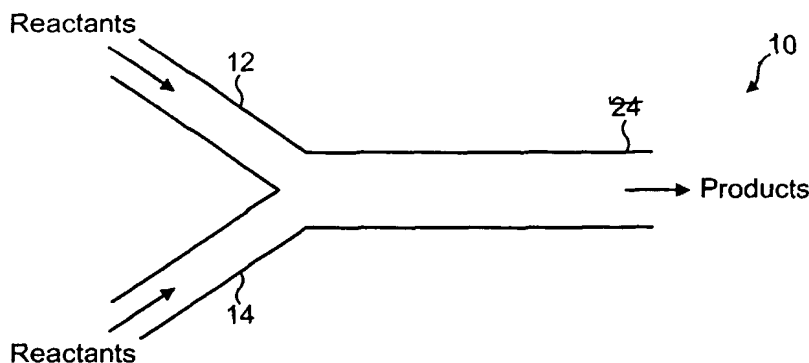
(43) International Publication Date  
17 July 2003 (17.07.2003)

PCT

(10) International Publication Number  
**WO 03/057362 A2**

- (51) International Patent Classification<sup>7</sup>: **B01J 19/00**
- (21) International Application Number: PCT/GB03/00108
- (22) International Filing Date: 13 January 2003 (13.01.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
0200744.1 14 January 2002 (14.01.2002) GB
- (71) Applicant (for all designated States except US): **IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY & MEDICINE** [GB/GB]; 47 Prince's Gate, Exhibition Road, London SW7 2QA (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **DE MELLO, Andrew** [GB/GB]; 64 Hamilton Road, Twickenham, Middlesex TW2 6SN (GB). **DE MELLO, John** [GB/GB]; 49 Victor Road, Toddington TW11 8AS (GB). **EDEL, Joshua** [GB/GB]; 7 Danescroft, Brent Street, Hendon, London NW4 2QH (GB).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PREPARATION OF NANOPARTICLES



(57) **Abstract:** The present invention provides a method and apparatus for the production of nanoparticles using a continuous flow miniaturised reaction vessel. In particular, the invention provides a method for preparing nanoparticles by a direct one-stage process.

WO 03/057362 A2